



SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal)

Scheme of Examination (Semester-VII)
for Batch Admitted in session - 2022-23

Bachelor of Technology (B. Tech.) – Information Technology

Subject Code			Subject Category			Subject Name			Maximum Marks Allotted										Contact Hrs. per week			Total Credits	
									Theory			Practical				Total							
									ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	T					
IT-701	DC	Software Testing and Quality	60	20	10	10	--	--	--	100	3	0	0	03									
IT-702	DE-4	DE-IV	60	20	10	10	--	--	--	100	3	0	0	03									
IT-703	DE-5	DE-V	60	20	10	10	--	--	--	100	3	0	0	03									
IT-704	DE-6	DE-VI	60	20	10	10	--	--	--	100	3	0	0	03									
IT-705	PROJ	Major Project Prelim	--	--	--		100	50	--	150	0	0	8	04									
IT-706	ILC	Internship-III (Completed in Third Year)	--	--	--		--	100	--	100	0	0	4	02									
Total			240	80	40	40	100	150	--	650	12	0	12	18									

IT-707 ILC Extracurricular Activities It is a one credit per year activity endorse in eight semester mark sheet
MST: Minimum two mid semester tests to be conducted during Semester

	DE-4	DE-5	DE-6
A	Distributed System	Information and Storage Retrieval	Object Oriented System Development using UML, Java and Patterns
B	Internet Technology	Optimization Techniques	Business Intelligence & Analytics
C	Computer Vision	Pattern Recognition	Systems and Usable Security

Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:Lecture, T:Tutorial, P:Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

(Handwritten signatures and marks)



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			Theory			Practical		Total Marks	L	T		P	
			ES	MS	Assignment/ Quiz	ES	LW/ Quiz						
IT-801	PROJ	Major Project https://archive.nptel.ac.in				250	150	400	0	0	20	10	
IT-802	ILC	Extracurricular Activities	It is a one credit per year activity endorsed in eight semester mark sheet				100	--	100	--	--	--	04
Total						350	150	500	0	0	20	14	

*List of Course suggested by department (Min. of 8 weeks)

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**Tentative Pool of subjects for Honours and Minor Degree
SWAYAM/NPTEL/MOOC's Courses**

S. No.	Honours Degree for students of parent department	Credit	Duration	Link
1.	Advanced Distributed Systems	3	Jul-Oct2025	https://nptel.ac.in/courses/106102237
2.	Multi-Core Computer Architecture	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs134/preview
3.	Introduction To Industry 4.0 And Industrial Internet Of Things	3	Jul-Oct2025	https://nptel.ac.in/courses/106105195
4.	Cloud Computing	2	Jul-Oct2025	https://nptel.ac.in/courses/106105167
5.	Deep Learning for Computer Vision	3	Jul-Oct2025	https://nptel.ac.in/courses/106106224
6.	Practical Cyber Security for Cyber Security Practitioners	3	Jul-Oct2025	https://nptel.ac.in/courses/106104467
7.	Distributed Optimization and Machine Learning,	3	Jul-Oct2025	https://nptel.ac.in/courses/106101466
8.	Software Conceptual Design	3	Aug-Sep2025	https://nptel.ac.in/courses/106101235
	Minor Degree for students of other department	Credit	Duration	Link
1.	Data Structures and Algorithms Design	3	Jul-Oct2025	https://nptel.ac.in/courses/106104697
2.	Computer Architecture	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs83/preview
3.	Operating System Fundamentals	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs141/preview
4.	Programming In Java	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs110/preview
5.	Software Engineering	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs108/preview
6.	Programming in Modern C++	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs144/preview
7.	Digital Circuits	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_ee125/preview
8.	Modern Digital Communication Techniques	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_ee130/preview

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9.	Analog Communication	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_ee131/preview
10.	Introduction to Wireless and Cellular Communications	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_ee109/preview
11.	Artificial Intelligence: Search Methods for Problem Solving	3	Jul-Oct2025	https://onlinecourses.nptel.ac.in/noc25_cs88/preview

*Note: Those subjects which are already studied in the core scheme from I to VIII semester cannot be opted.

20 additionally to be earned between V to VIII semester Maximum 6 credits per semester from V semester onwards will be permitted.

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